

FIG. I PRIOR ART

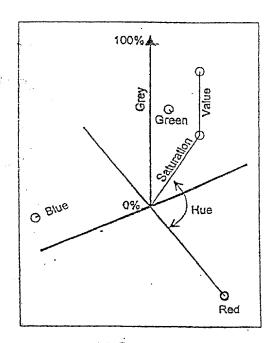


FIG. 2 PRIOR ART

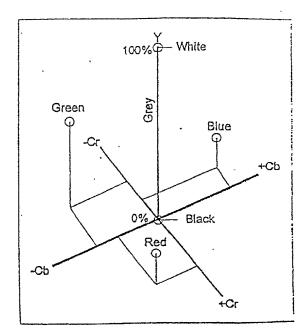


FIG. 3 PRIOR ART



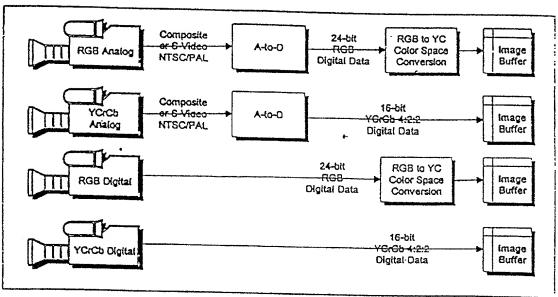


FIG. 4

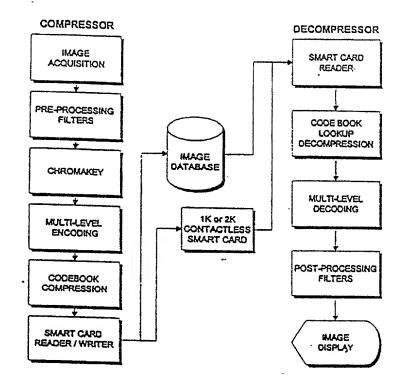
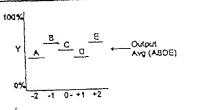
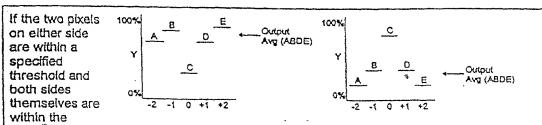


FIG. 5

If all pixels are within a specified threshold, the output is the average of the four pixels, two on each side of the target.



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threshold; the target pixel is considered to be impulse noise. The output is the average of the two pixels on each side of the target.

FIG. 7

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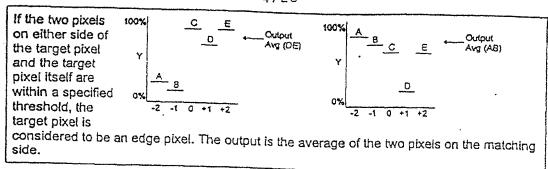


FIG. 8

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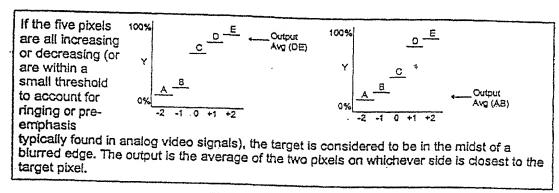
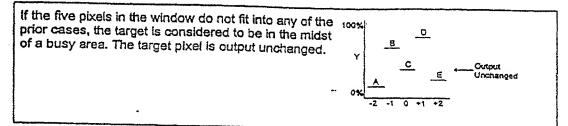
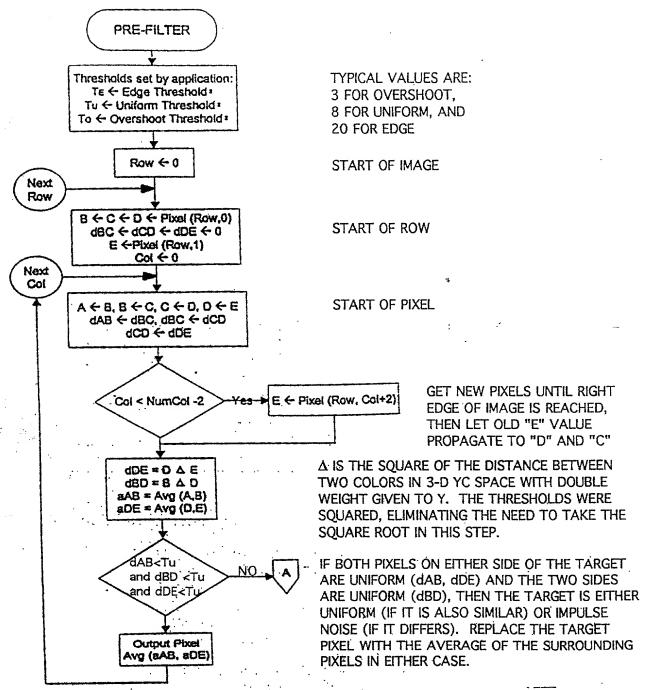


FIG. 9





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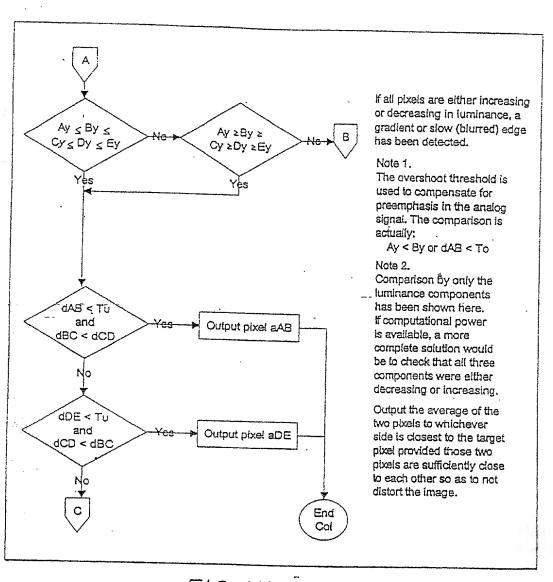
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FIG. 11A



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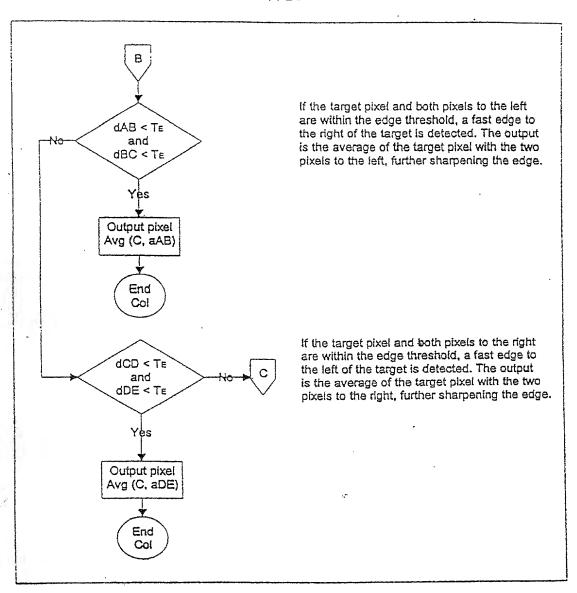
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FIG. 11B



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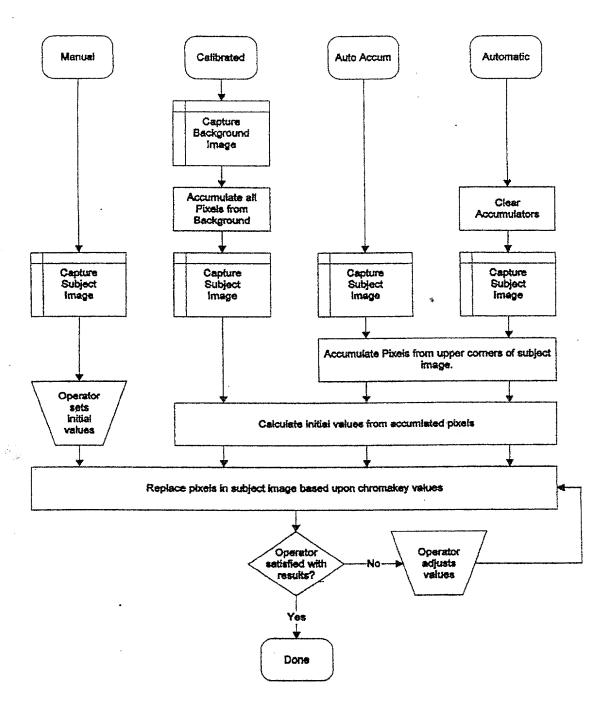
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FIG. 11D



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FIG. 11E

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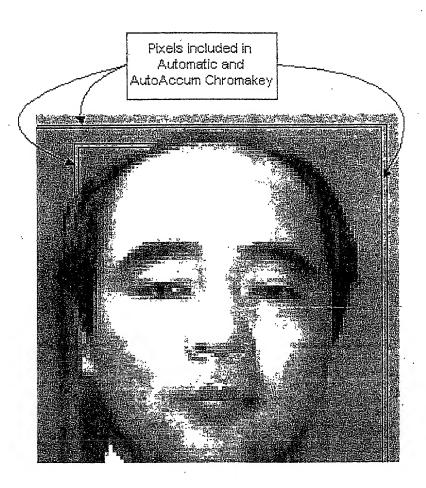
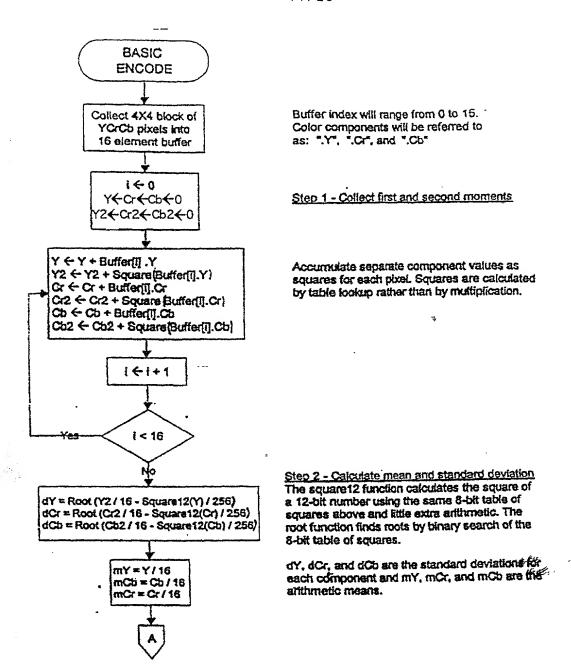


FIG. 11F



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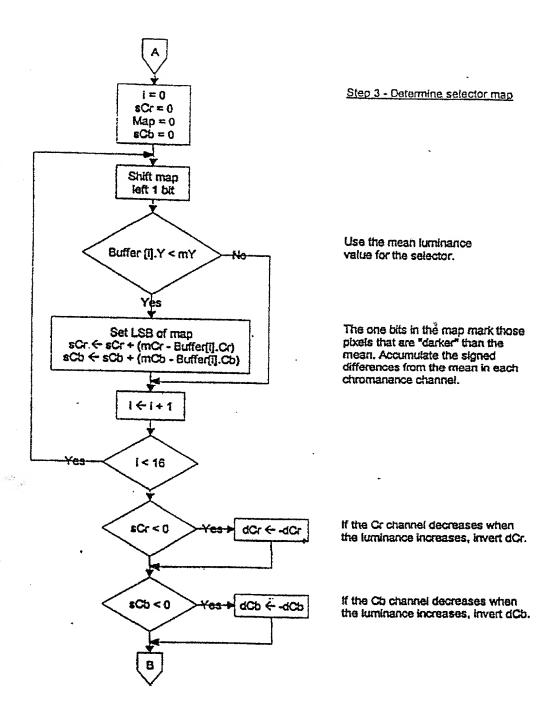
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FIG. 12A



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FIG. 12B

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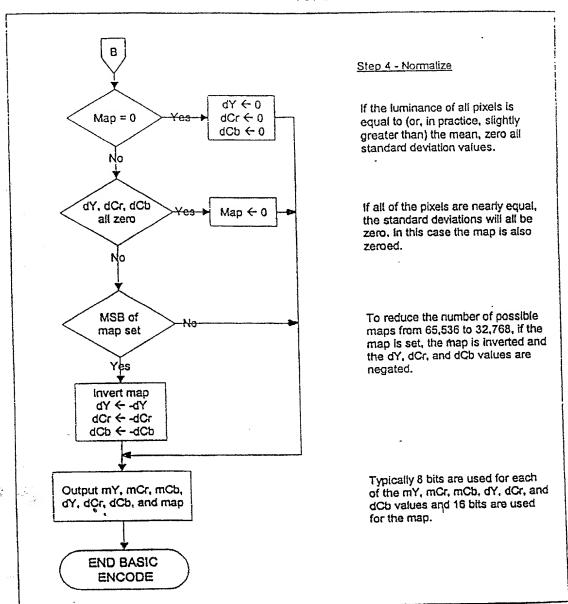


FIG. 12C -

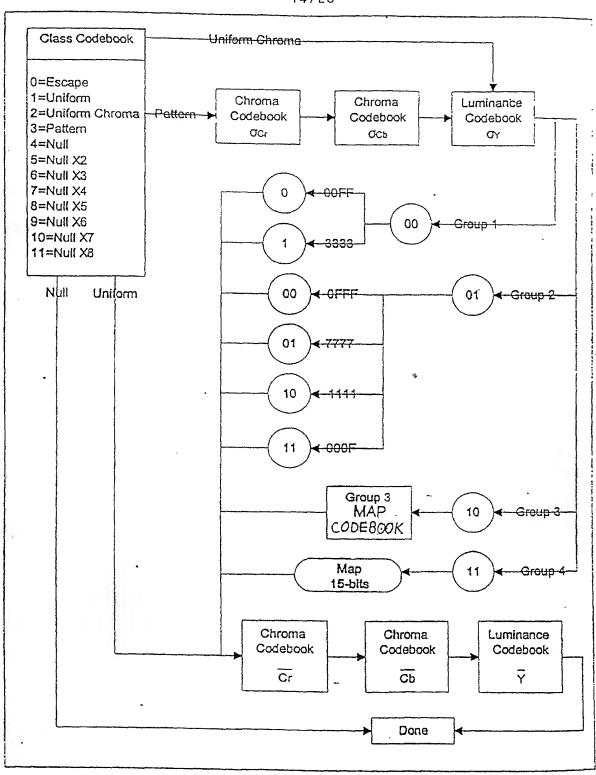


FIG. 13

COMPRESS BLOCK

COLLECT DATA FOR THIS BLOCK:

TYUNI - UNIFORM LUMINANCE THRESHOLD

TCUNI - UNIFORM CHROMINANCE THRESHOLD

TMAP - MAP ERROR THRESHOLD

DUPAT - PATTERN CHROMINAROL DIT

BYUNI - UNIFORM LUMINANCE BITS

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mY ← BLOCK MEAN LUMINANCE

dY ← BLOCK STD. DEV. LUMINANCE

dCr ← BLOCK STD. DEV. Cr CHANNEL

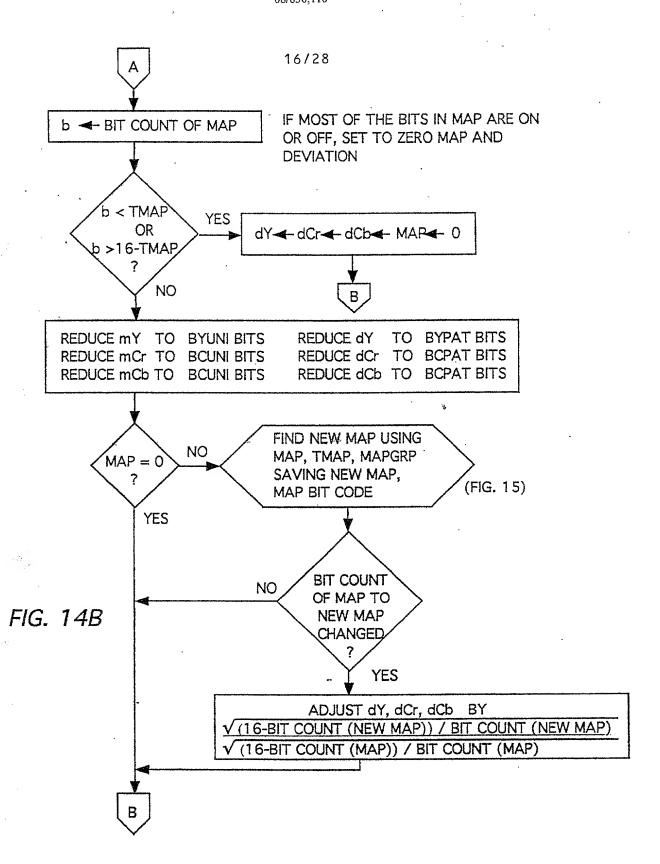
dCb ■ BLOCK STD. DEV. Cb CHANNEL

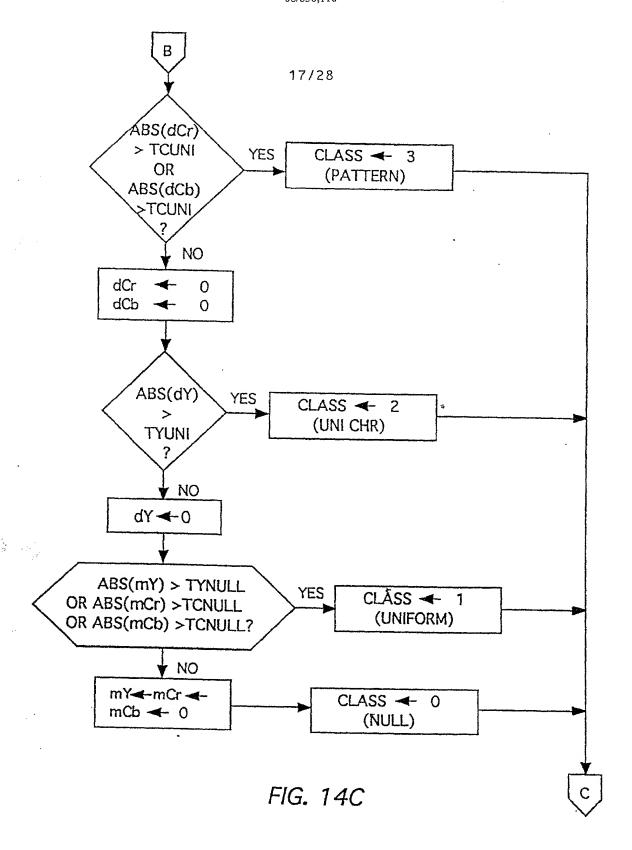
MAP ←BLOCK SELECTION MAP

INITIALIZE VALUES:

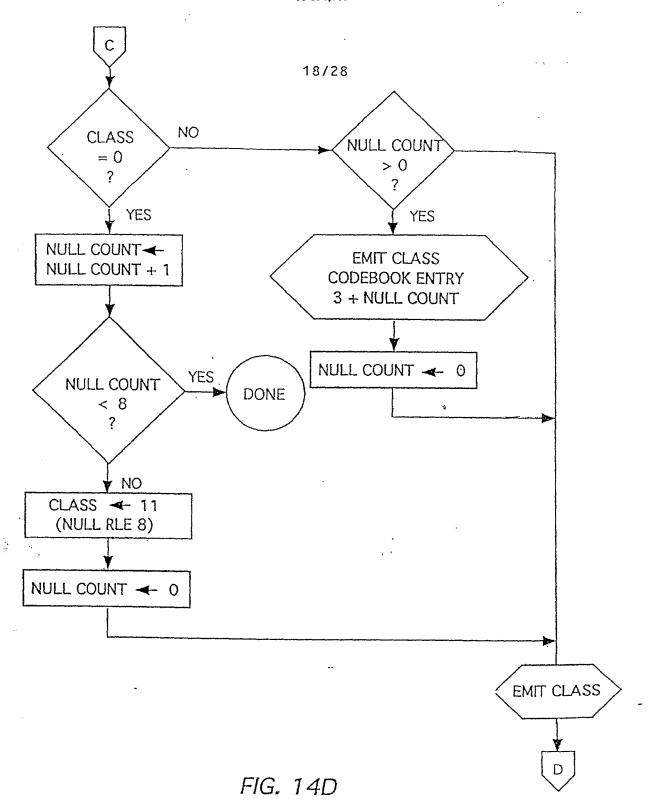


FIG. 14A





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Title: Smart Card For Storage and Retrieval of Digitally Compressed Color Images
Inventor: Anthony H. Otto
08/836,116

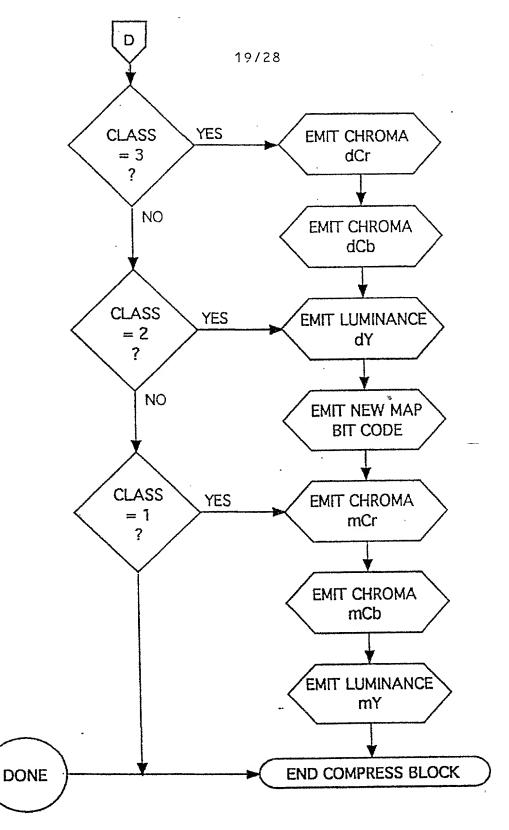
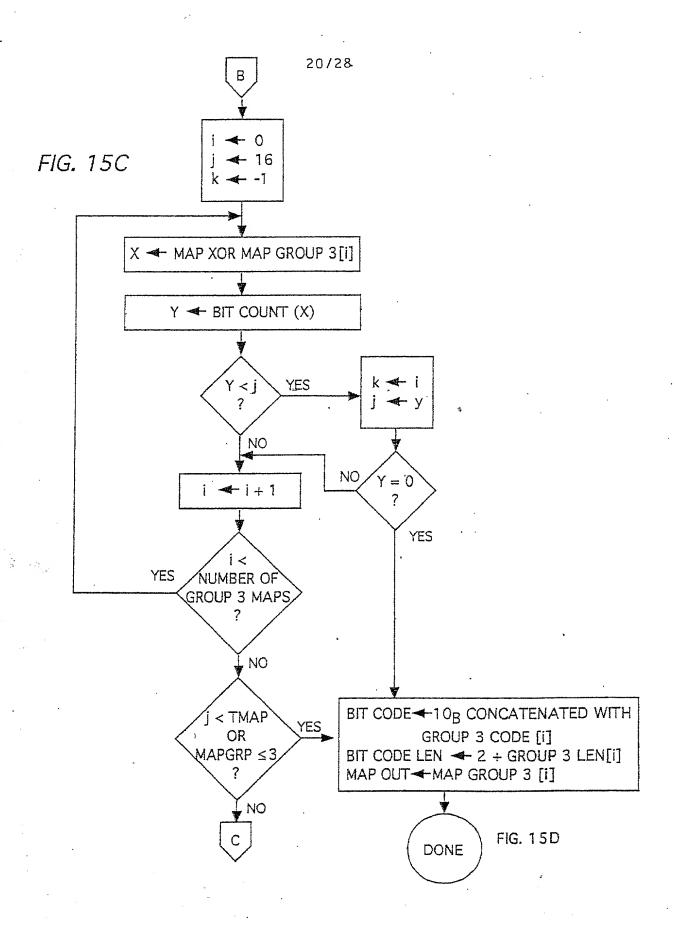
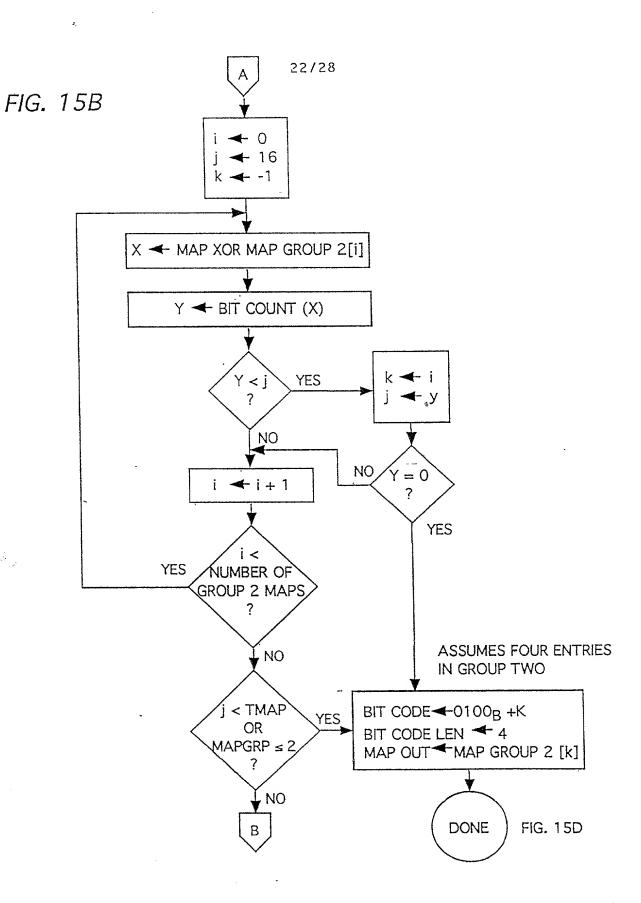


FIG. 14E





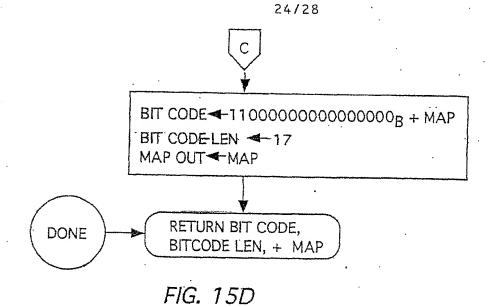
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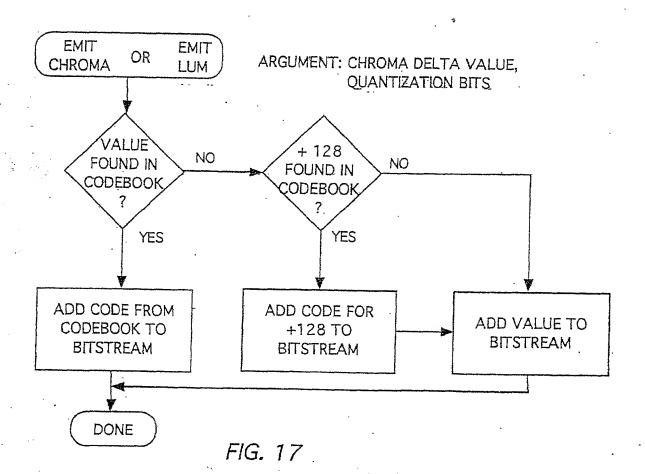
FIG. 16A

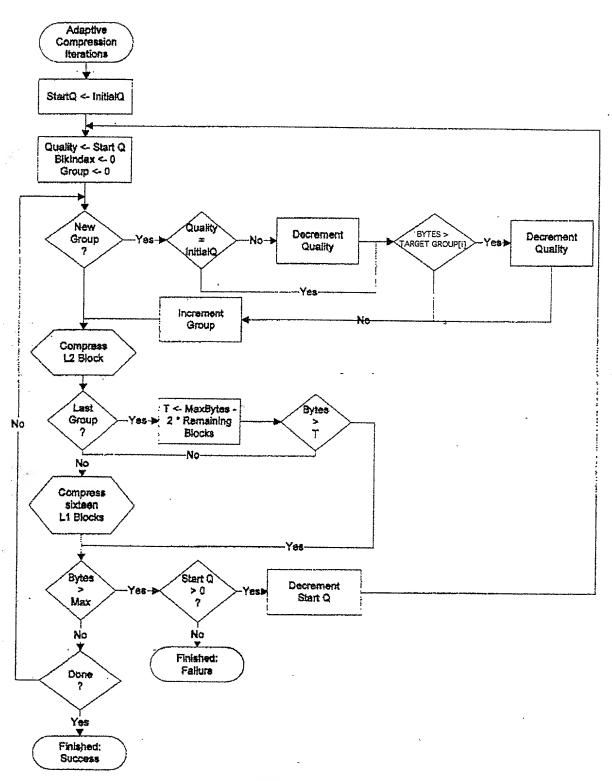
D	D	D	D	D	D
D	C	В	В	С	D
D	В	Α	Α	В	D
D	В	Α	Α	В	D
D	С	В	В	С	D
D	D	D	D	D	D

	CIRCLE	OVAL	BELL
NON- TRUNCATED	60 52 44 32 33 45 53 61 54 34 24 6 17 5 35 55 46 26 12 4 5 13 27 47	60 52 40 32 33 41 53 61 56 36 24 16 17 25 37 57 48 28 12 4 5 13 29 49 42 20 8 0 1 9 21 43 44 22 10 2 3 11 23 45 50 30 14 6 7 5 31 51 58 38 26 8 19 27 39 59 52 54 46 34 35 47 55 63	52 58 54 44 45 55 59 63 56 46 34 26 2735 47 57 50 30 6 10 11 17 31 51 40 24 12 4 5 3 5 41 38 8 6 0 1 7 9 39 42 22 8 2 3 9 23 3 52 32 20 14 15 21 33 3 60 8 36 28 29 87 49 61
TRUNCATED	X X 44 82 33 45 X X X 34 2 4 6 17 5 35 X 46 26 12 4 5 3 7 47 36 18 6 0 1 7 19 17 38 20 8 2 3 9 21 9 48 28 14 011 5 29 49 X 40 30 22 23 31 41 X X X 50 12 43 51 X X	X X 40 32 33 41 X X X 36 24 6 17 25 37 X 48 28 2 4 5 3 29 49 42 20 8 0 1 21 43 44 22 10 2 3 1 23 45 50 30 4 6 7 5 31 51 X 38 26 18 2 7 39 X X 46 34 35 47 X X	X X 50 44 45 51 X X X 46 34 26 27 85 47 X 48 80 6 10 11 17 31 49 40 24 2 4 5 3 5 41 38 8 6 0 1 7 19 39 42 22 8 2 3 9 23 3 X 32 20 14 15 21 33 X X X 36 28 29 87 X X
CONTROL POINTS	1/2 — 1 1/2	1/2 → 1/2 → 1/4 2 1/4 3 1/4	1/3

FIG. 16B







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| ± | ±.

FIG. 18

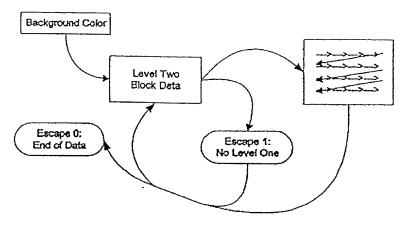


FIG. 19

BLOCK DATA FOR EACH OF SIXTEEN LEVEL ONE BLOCKS

Heavy Edge Filter					
Α	CZ BZ	C/Z E/Z	D	E	
F/2 K/2	144 G4 144 L4	五百五五	V2 N/2	nu N	
K/2 F/2	134 134 134 134	- E E E E E	N/2 V2	0/2 3/2	
P	0/2 R/2	R/2 CJ/2	S	T	
U	Y/2 W/2	WW VIZ	X	Υ	

Input							
Ι.Α	В	С	D	E			
	_	۱		_			
F	G	Н	1	J			
K	L	М	N	0			
Р	Q	R	S	T			
U	٧	W	X	Υ			
L							

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1	Light Edge Filter						
	Α	38/4 C/4	SC/4 B/4	D	E		
	sem KM	9G/18 3H/16 3L/14 1M/16	SHVIS SIVIS LINS	3V4 N/4	3,1/4 C/4		
	94 94	9U/16 3H/16 3G/16 H/16	31/16 31/16 31/16	3N/4 1/4	30/4 J/4		
	P	30/4 R/4	3R/4 0/4	S	Т		
	U	3V/4 V//4	344/4 V74	X	Υ		

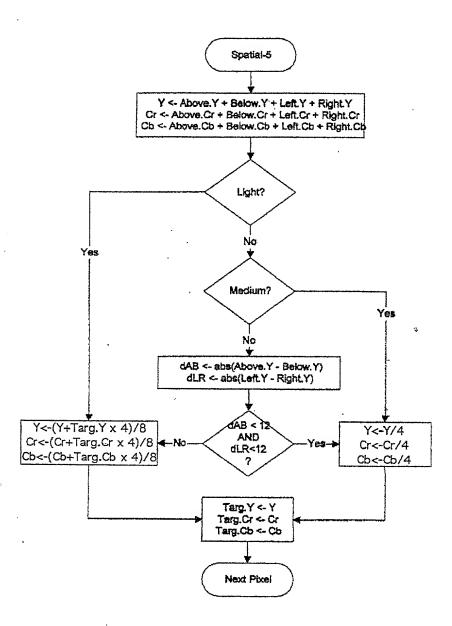
	Medium Edge Filter						
	Α	28/3 C/3	2C/3 B/3	D	E		
		•					
1	2F/3	4G/9	411/9	253	23/3		
	K/3	2H/9	2G/9	N/3	0/3		
1		21/9	ZM/9				
		14.9	LVO				
	2K/3	41.78	414/9	2H/3	20/3		
	FA	ZM/9	21/9	¥3	1/3		
		2G/9	2H/9				
		H/9	G/9				
	P	20/3	28/3	S	Т		
	١ ٠	R/3	C/3	0			
			i				
	U	2V/3	211/3	Х	V		
	_	W/3	V/3	~	•		
	1		l				
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FIG. 20D

FIG. 20A

FIG. 20B

FIG. 20C



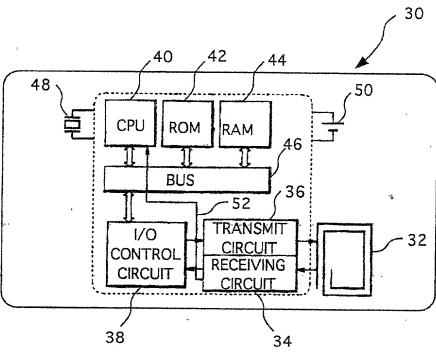
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FIG. 21



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FIG. 22